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Solution 2.

Paramagnetism.  $U(s)$

$$= U_1(s_1) + U_2(s_2)$$

$$= 2mB(s_1 + s_2) =$$

$$2mBs \text{ or } s = \frac{U}{2mB} \text{ i.e.}$$

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potential energy  $U(s)$

$= 2smB$ . For  $jsj \ll N$ ,  
then  $g(N;s)$

$g(N;0) \exp 2s^2 = N =$   
 $g(N;0) \exp 2U$

$2(mB)^2 N \quad ?(N;U) =$

$\ln g(N;U) = ? \quad 0 \quad U^2$

$2m^2 B^2 \quad 1 \quad N$  where  $? \quad 0$

$= \ln g(N;0) \quad 1 \quad ? = @?$

$@U \quad N = U \quad m^2 B^2 \quad 1 \quad N$

What is the thermal  
equilibrium value of  
this  $N$ -spin system of  
fractional

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Part a Suppose  $g(U)$

$= CU^3N^{-2}$ , where  $C$

is a constant and  $N$  is

the number of

particles. Show that

$U = \frac{3}{2} N^{\frac{2}{3}}$ . We use

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the definition of  
temperature as  $\left(\frac{\partial U}{\partial S}\right)_N = T$  (1) So,

let's calculate  $\left(\frac{\partial U}{\partial S}\right)_N$ .  $\left(\frac{\partial U}{\partial S}\right)_N =$

$\ln(g) = 3N \ln(U) + \ln(C)$  (2) Therefore,

$\left(\frac{\partial U}{\partial S}\right)_N = 3N \frac{U}{S} = T$  (3) So finally,  $U = \frac{3}{2} N T$

(4) Part b Show that  $\left(\frac{\partial^2 U}{\partial S^2}\right)_N = -\frac{2}{3} \frac{1}{T^2}$

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systems that can only

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(draft) Silvio Salinas

19 August 2011. ii.

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We give some

schematic solutions of

exercises from

chapters 1 to 10 of

"Introduction to

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$\int_{a/4}^{a/2} 2m \frac{1}{r^2} dr = 2m \left[ -\frac{1}{r} \right]_{a/4}^{a/2} = 2m \left( -\frac{1}{a/2} + \frac{1}{a/4} \right) = 2m \left( -\frac{2}{a} + \frac{4}{a} \right) = 2m \left( \frac{2}{a} \right) = \frac{4m}{a}$

$\int_{a/4}^{a/2} e^{-2r/a} dr = -\frac{a}{2} e^{-2r/a} \Big|_{a/4}^{a/2} = -\frac{a}{2} \left( e^{-2(a/2)/a} - e^{-2(a/4)/a} \right) = -\frac{a}{2} \left( e^{-1} - e^{-1} \right) = 0$

$\int_{a/4}^{a/2} 2e^{-r/a} dr = -2a e^{-r/a} \Big|_{a/4}^{a/2} = -2a \left( e^{-2} - e^{-1} \right) = 2a \left( e^{-1} - e^{-2} \right)$

$\frac{1}{2} \int_{a/4}^{a/2} e^{-2r/a} dr = \frac{1}{2} \left( -\frac{a}{2} e^{-2r/a} \Big|_{a/4}^{a/2} \right) = \frac{1}{2} \left( -\frac{a}{2} \left( e^{-1} - e^{-1} \right) \right) = 0$

$\int_{a/4}^{a/2} e^{-2r/a} dr = -\frac{a}{2} e^{-2r/a} \Big|_{a/4}^{a/2} = -\frac{a}{2} \left( e^{-1} - e^{-1} \right) = 0$

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manual • We have

seen (Kittel Ch 2) that

any periodic function

can be written as

Fourier series  $f(r) = ?$

$\sum_G f_G \exp(i G \cdot r)$

where the  $G$ 's are

reciprocal lattice

vectors  $G(m_1, m_2, \dots)$

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$= m_1 b_1 + m_2 b_2 + m_3 b_3$  • Check: A periodic function satisfies  $f(r) = f(r + T)$  where  $T$  is any

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